

Wet Pond Maintenance Plan

I. Objectives: The maintenance objectives for wet ponds include keeping up the structure, quality and efficiency of the pond, maintaining a healthy vegetation cover, and managing against vector intrusion.

II. Maintenance Activities and Schedule:

A. Overview: Maintenance activities will consist of two general categories: **Routine or preventative maintenance** which refers to procedures that are performed on a regular basis to keep the BMP aesthetic and in proper working order. Routine maintenance includes debris removal, silt and sediment removal, and clearing of vegetation around flow control devices, forebay and outlet. Routine maintenance also includes the maintenance of a healthy vegetative cover.

Non-routine or corrective maintenance refers to any rehabilitative activity that is not performed on a regular basis. This includes flow control structure replacement or the major replacement and cleaning of aquatic vegetation.

B. Inspection Schedule:

- Visual inspections will be conducted monthly, particularly after heavy runoff, to ensure stability of pond (i.e. damaged vegetation, eroded banks or impaired forebay)
- Detailed inspections will be conducted at least twice annually with inspections occurring (1) at the end of the wet season to schedule summer maintenance and (2) before major fall runoff in preparation for winter
- Detailed inspections will also be conducted after periods of heavy runoff

C. Detailed Inspection Objectives: inspections will be conducted to identify sediment accumulation, erosion threats, structural integrity of the outlet/forebay and litter accumulation. If any issues exist, activities as outlined in item “D” Maintenance Activities will be conducted.

D. Maintenance Activities:

The following maintenance activities will be conducted periodically as inspections warrant, or at a minimum of two times per year as listed below.

- Erosion: Areas of erosion and slope failure will be repaired and reseeded (or sodded) as soon as possible. Eroded areas near the inlet or outlet may

also need to be lined with riprap, which will be determined on a case by case basis. [As inspections warrant]

- Damage to vegetation: If vegetation surrounding pond area or within pond becomes impacted, it will be repaired utilizing a suitable soil and appropriate vegetation cover fitting with original/existing vegetation. If invasive species develop, promptly remove to avoid disruption to original vegetation. [As inspections warrant]
- Debris / litter: remove accumulated trash and debris in the basin (and immediate surroundings) at the middle and end of the wet season, and ongoing during the dry season as needed, or more frequently as inspections warrant.
- Maintain emergent vegetation and perimeter shoreline vegetation semiannually, or more frequently as visual inspections warrant.
- Harvest vegetation annually in the early summer months for re-growth in late summer in preparation for wet weather season.
- Maintain road and/or maintenance access paths to pond semiannually at a minimum and after major storms, or as visual inspections warrant.
- Remove accumulated sediment in the forebay and regrade about every 5-7 years or when the accumulated sediment volume exceeds 10% of the basin volume.

III. Vector Control:

Ponds can attract mosquitoes. Regular inspections and monitoring will determine if pond is threatened by mosquito intrusion. The above-mentioned maintenance of vegetation and annual harvesting of vegetation will assist with managing mosquitoes. Additionally, introduction of mosquito fish may assist in managing mosquito population.

Mosquito Abatement District will be contacted as needed for assistance should any mosquito issues arise.

IV. Correspondence

Correspondence regarding operations, inspections and maintenance will be provided to the City of Fremont's Environmental Services Division as required and according to the schedule outlined in the Operations and Maintenance Agreement held with the City of Fremont in regards to this property.